19991024.ba v02_n710.bam.991024

>From ???@??? Sun Oct 24 19:27:47 1999
Message-Id: <199910242159.d9OLxfD11991@sco.theporch.com>
Date: Sun, 24 Oct 1999 16:59:14 CDT
From: Old Tube Radios <boatanchors@theporch.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: BOATANCHORS digest 2710

BOATANCHORS Digest 2710

Topics covered in this issue include:

1) Panadapter RBU-1 Manual needed
by Bob Login <jlogin@mindspring.com>
2) Re: Regen Detector Pentode Characteristics
by Hue Miller <kargokult@proaxis.com>
3) MUST REMOVE AND MAKE A PATH IN BLACK HOLE
by billandr@aztec.asu.edu (BILL ANDREWS)
4) Dealings with Full Range Electron Tube Shop?
by Tom B <tbryan@nova.org>
5) misc for sale
by Kevin Thomas <kg9il@mc.net>
6) Re: Frustrations!
by "Barry L. Ornitz" <ornitz@tricon.net>
7) Complete list from Tony
by Avery Comarow <acomarow@usnews.com>
8) Re: Regen Detector Pentode Characteristics
by Arden Allen <gumbear@pacbell.net>
9) FT: OLD military radio
by William Donzelli <aw288@osfn.org>
10) Re: Regen Detector Pentode Characteristics
by "Sandy Blaize" <ebjr@i-55.com>
11) Re: Regen Detector Pentode Characteristics
by Hue Miller <kargokult@proaxis.com>
12) Re: Regen Detector Pentode Characteristics
by Hue Miller <kargokult@proaxis.com>
13) Chattanooga hamfest report
by "Joseph W. Pinner" <kc5ijd@sprintmail.com>
14) resume
by AA5QT@aol.com
15) Old Collins gear on Cable TV
by thompson@mindspring.com
16) RACAL RA17 series
by "John Gainsborough" <jgindc@bellatlantic.net>
17) Re: Regen Detector Pentode Characteristics
by "Sandy Blaize" <ebjr@i-55.com>
18) RE: Regen Detector Pentode Characteristics

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     by James Hanlon <knjhanlon@uswest.net>
 19) Help: Cossor 343 "Ganging Oscillator" (II)
     by "JOSE V. GAVILA (EB5AGV/EC5AAU)" <eb5agv@ctv.es>
 20) Tube help...?
     by MODSTEPH@ACS.EKU.EDU
 21) Re: Regen Detector Pentode Characteristics
     by Hue Miller <kargokult@proaxis.com>
 22) Possible RACAL Reflector
     by "Ed Tanton" <n4xy@att.net>
 23) RE: Possible RACAL Reflector
     by "WF2U" <mbendror@villagenet.com>

----------------------------------------------------------------------
Message-Id: <3.0.1.32.19991023175149.007bb320@pop.mindspring.com>
Date: Sat, 23 Oct 1999 17:51:49 -0400
To: Old Tube Radios <boatanchors@theporch.com>
From: Bob Login <jlogin@mindspring.com>
Subject: Panadapter RBU-1 Manual needed
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hi -I hv one with bad pwr transformer and no manual
anyone out there who can help???  Tnx Bob,AA8A

------------------------------
Message-Id: <3.0.5.32.19991023154021.00819700@proaxis.com>
Date: Sat, 23 Oct 1999 15:40:21 -0700
To: Old Tube Radios <boatanchors@theporch.com>
From: Hue Miller <kargokult@proaxis.com>
Subject: Re: Regen Detector Pentode Characteristics
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 05:52 AM 10/23/99 -0700, Arden Allen wrote:
>That means the grid will be operating far from cutoff where sharp
>and remote cutoff pentodes operate the same with respect to small signals.
>Does this hold water?
>
>Arden  Allen   KB6NAX   Vallejo, CA   gumbear@pacbell.net

--probably holds water for cases where you have a separate regenerative amp
and a separate detector - a very uncommon circuit, if i recall only used
in Mackay's type 117 and maybe one RMCA lifeboat radio, at least.
But for detection, don't you want a "high slope" type valve?
Hue

------------------------------
Date: Sat, 23 Oct 1999 15:32:20 -0700 (MST)
```

From: billandr@aztec.asu.edu (BILL ANDREWS)
Subject: MUST REMOVE AND MAKE A PATH IN BLACK HOLE
To: Old Tube Radios <boatanchors@theporch.com>
Message-id: <199910232232.PAA13021@aztec2.asu.edu>

Ladies and Gentlemen,

My wife about 2 weeks ago asked
"How can you possibly enjoy being in the garage"
Her comments were attributed to the ever appearing
scratches showing up on my lower legs. As I scraped
them on cardboard flaps and sharp edges of various
equipment piles. I am unable to stand in front of the
bench. Therefore some things must go.

I have been preparing a list which is much too long
for submission here.

Please request via email to billandr@aztec.asu.edu.

Thanks for reading es 73, Bill   W8AKH

--
q

Message-Id: <3.0.6.32.19991023190237.01d6fb30@mail.nova.org>
Date: Sat, 23 Oct 1999 19:02:37 -0400
To: Old Tube Radios <boatanchors@theporch.com>
From: Tom B <tbryan@nova.org>
Subject: Dealings with Full Range Electron Tube Shop?
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hello All,

If anyone has had any dealings with Jonathan Woo at the Full Range Electron Tube Shop in Hong Kong could you please contact me off list.

The URL for his shop is:

http://www.fullrangeaudio.com/

Tom Bryan
tbryan@nova.org

Message-ID: <38124864.8BF98C31@mc.net>
Date: Sat, 23 Oct 1999 18:44:36 -0500
From: Kevin Thomas <kg9il@mc.net>
MIME-Version: 1.0
To: Old Tube Radios <boatanchors@theporch.com>
Subject: misc for sale
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hello All,

I ran across a few items today while looking for something in the garage. These might help someone with a project.

NC-300 knobs(12).....no main tuning or band switch ....most dirty, but will clean up nicely $15 shipped

Heath Audio Analyzer meter 407-29 Looks NIB $15 shipped ????

Heath QF-1   dirty...untested $15 shipped

Still looking for a HQ-170....

Kevin
KG9IL

Message-Id: <199910232301.TAA01608@flash.naxs.net>
From: "Barry L. Ornitz" <ornitz@tricon.net>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: Frustrations!
Date: Sat, 23 Oct 1999 19:55:55 -0400

Hi Al,

I don't have the tube, but if the kids have computers, there are some excellent programs for teaching code. Supermorse is one I have used before. A number of useful programs are available for download from:

    http://qrz.com/files/morse/

73, Barry   WA4VZQ   ornitz@tricon.net

Message-Id: <3.0.6.32.19991023200103.007f3e50@ntpop.usnews.com>

Date: Sat, 23 Oct 1999 20:01:03 +0000
To: Old Tube Radios <boatanchors@theporch.com>
From: Avery Comarow <acomarow@usnews.com>
Subject: Complete list from Tony
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Here's the FS list.

Avery W4OGK

****
Here is a list (with prices) of the gear I have for sale. Most prices are firm, and I am still answering inquiries on some items.

Collins R390/URR (rack mount) with manual $325
Collins 32S1 $200
RME 4350 $130
RME 45 RCVR w/matching speaker Very Clean $95 for both (manual available, free)
Collins Speaker WE312   (currently looking for lamp, clips and light) $???
BC 348K (modified in rear for A/C) Very Sharp $150
Dentron Clipperton L (Amplifier) $325
Hewlett Packard Signal Generator (mdl 205AG) $40
TEN TEC Triton IV (HF XCVR) w/pow supp $100
Meissner Delux Signal Shifter $60
Meissner (MDL EX) Signal Shifter $50
CAI Communication Receiver $25
Unique Wire Tuner (roller inductor) $75
ZENITH TRANS OCEANIC
     Royal 3000-1 $60
     Royal 1001-1 $60 (with a "parts" unit included)
     D 7000 Y $60
     6A40 (rotating dial) $80
     6A40 (slide dial) $80
Hallicrafter Sky Champ. $55 w/manual
Hallicrafter Speaker S23 $40 (for SX23, 24, 25 and 28--no "h" on grille)

Inquiries please E-Mail   <tonyy@juno.com> Phone 301 262 1917 Bowie MD

Date: Sat, 23 Oct 1999 17:50:03 -0700
From: Arden Allen <gumbear@pacbell.net>
Subject: Re: Regen Detector Pentode Characteristics
To: Old Tube Radios <boatanchors@theporch.com>
Message-id: <0FK300MKN0ZSSP@mta2.snfc21.pbi.net>

MIME-version: 1.0
Content-type: text/plain; charset=ISO-8859-1
Content-transfer-encoding: 7bit

Hi Hue;

> --probably holds water for cases where you have a separate regenerative
amp
> and a separate detector - a very uncommon circuit, if i recall only used
> in Mackay's type 117 and maybe one RMCA lifeboat radio, at least.
> But for detection, don't you want a "high slope" type valve?

Good point. A sharp cutoff detector would have a better chance of exhibiting some gain operating near cutoff than a remote type. But that would also assurme a pretty small signal at the grid. A regenerative may produce a pretty healthy signal at the grid (pumping up that tank) and then what? Food for a great evening's project?

Arden Allen   KB6NAX   Vallejo, CA   gumbear@pacbell.net

Date: Sat, 23 Oct 1999 22:58:33 -0400 (EDT)
From: William Donzelli <aw288@osfn.org>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: FT: OLD military radio
Message-ID: <Pine.SUN.3.91-FP.991023224203.21462A-100000@osfn.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

I have an extra (!) BC-9, converted to a BC-9-A, that I would like to trade off.

This is the forerunner of the BC-148, 151, etc. series, and was made by WSA on a 1921 order. I have no idea when the conversion took place, but the BC-9 was replaced by the -A model by at least 1925. It is a transceiver with a built in flip-down key and a minimal amount of controls. Frequency coverage is 4-4.4 MHz (unusually high for the period). I do not know what the power output is - likely quite low, as it only has three VT-1s for tubes.

The BC-9 is unrestored (I have my own to restore), but really is not too bad. Expect to put some work into it. The loop (a five sided monster that fit on the back) is gone. I think most of the innards, maybe all, are there, with the exception of the tubes. Further details in the future, if there is interest.

Something this old on the BA list? Well, it is awfully close to 80M...Don't know about stability, though...

Trade? Yes! How about some other pre-1935 military set - and it can be
unrestored as well. Remember the words "Navy Dept. Bureau of Engineering"...

William Donzelli
aw288@osfn.org

Message-ID: <003a01bf1db0$6d769200$2265e7d0@sandy-s-pentium>
From: "Sandy Blaize" <ebjr@i-55.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: Regen Detector Pentode Characteristics
Date: Sat, 23 Oct 1999 23:41:35 -0000
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

>Good point. A sharp cutoff detector would have a better chance
of
>exhibiting some gain operating near cutoff than a remote type.
But that
>would also assurme a pretty small signal at the grid. A
regenerative may
>produce a pretty healthy signal at the grid (pumping up that
tank) and then
>what? Food for a great evening's project?
>
>Arden Allen   KB6NAX   Vallejo, CA   gumbear@pacbell.net
>
>   I haven't done any definitive studies on this subject. In
fact, it's
rather difficult to do anything "definitive" on a regenerative
circuit.
Change the layout and you change everything!
I have had some very touchy and lousy results with "hi-mu"
triodes though! The 12AT7 is squirrelly to "tame" and the
12AX7 or the 6SL7 type triodes almost impossible to
deal with. I have NEVER successfully been able to obtain
really smooth regeneration with a hi-mu triode as a detector!
With the old '30 or similar types (1H4GT, etc.) and the
dual triode units like the '19 and 1J6G or the 1G6G are
much easier to deal with. Have had very good results with
the 6C4, 12AU7, 6SN7 etc. Either with "throttle" capacitors
or B+ potentiometers to control regeneration.

73,
Sandy W5TVW

Message-Id: <3.0.5.32.19991023232205.00830500@proaxis.com>
Date: Sat, 23 Oct 1999 23:22:05 -0700
To: Old Tube Radios <boatanchors@theporch.com>
From: Hue Miller <kargokult@proaxis.com>
Subject: Re: Regen Detector Pentode Characteristics
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 11:41 PM 10/23/99 -0000, Sandy Blaize wrote:

> I have had some very touchy and lousy results with "hi-mu"
> triodes though! The 12AT7 is squirrelly to "tame"

--This is very interesting, as the Knight Kit, Lafayette and Heathkit (GR-91) regen radios all used the 12AT7 in the first slot: det + 1st audio. Why, then? Of course, these radios might not have been intended to be used, really. Just to teach principle of radio. !-) And then put away and go on to better things. But actually, as i recall, altho they are not smooth-operating like the "pro" regens, they do sorta work, and i recall i could listen to Radio Australia or Radio Moscow, for reasonably long listening periods, the only disturbance being rolling fades.

I've never tried subbing in a 12AU7 for the 12AT7 in one of these. That sounds like a very interesting trial. Maybe that will even get me to redo the lytics in the Spanmaster.

I did grab a wellworn RCA tube manual and looked at the graphs for the AT7 and the AU7, and i can see why the AT7 might give more squirrely results, at fairly low minus voltages on the grid, and plate near the standard 100 jolts, the AT7 very quickly moves into cutoff country, compared to the AU7, which is still coasting along. Still, there's a reason these companies selected the 12AT7 - this same feature may make a more sensitive small signal detector: giving more bang for the buck, in a $19.95 3 tube regen. After all, it's doesn't have to be easy to operate, or stable, unless your life depends on it, or you paid serious money for the product, or you designed and built it yourself.

> 12AX7 or the 6SL7 type triodes almost impossible to
> deal with. I have NEVER successfully been able to obtain
> really smooth regeneration with a hi-mu triode as a detector!

--Also interesting (to me) in that i've seen published in a couple places a 1-tube circuit using the 6SN7 - not 6SL7. (BTW, didn't the Walter Ashe novice set use this 1 tube?)

>With the old '30 or similar types (1H4GT, etc.) and the
>dual triode units like the '19 and 1J6G or the 1G6G are
>much easier to deal with.

--When i read this, a set popped into mind, and i understood the design idea better: the Japanese 94-5 receiver. This uses RF pentode, low-mu triode detector, then dual triode-pentode, like 1D8, for audio. Now i think i have a better idea of why this set uses one of the 3 holes for just a staid old triode detector. BTW, the matching transmitter covers about 400 kc/s thru 5000 kc/s, VFO/xtal, i.e. broadcast frequencies were fair game for wartime communcations.

BTW, i just had an exchange of notes with an employee of a militaria company, who consistently stated that the German Volksempfaenger (= "People's Radio", same idea as VW, Volkswagen, "People's Car") was issued so Germans could not listen to foreign stations. This of course isn't true, altho it makes good sales hype. The circuit is LW/MW regen, with det + audio. The fact is, with ear against speaker, quiet surroundings, some few meters of wire antenna, and a good touch on the regen control, there's no reason you could not hear England from Germany, at night on the MW band. The radio was developed earlier than the start of the war, as a means of getting radio into the homes of even low wage earning Volk. (radio frequently seen at auction under "Nazi Radio".)

807, Hue

Message-Id: <3.0.5.32.19991023232847.00822e90@proaxis.com>
Date: Sat, 23 Oct 1999 23:28:47 -0700
To: Old Tube Radios <boatanchors@theporch.com>
From: Hue Miller <kargokult@proaxis.com>
Subject: Re: Regen Detector Pentode Characteristics
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 05:50 PM 10/23/99 -0700, Arden Allen wrote:
>
>Good point. A sharp cutoff detector would have a better chance of
>exhibiting some gain operating near cutoff than a remote type. But that
>would also assurme a pretty small signal at the grid. A regenerative may
>produce a pretty healthy signal at the grid (pumping up that tank) and then
>what? Food for a great evening's project?

--Yes, that's interesting too. The voltage at the grid would vary from local BC stations, which develop already a fraction of a volt even on a crystal radio, to the minimum signal this radio might be able to receive, on shortwave, which might be in the low 10s of uvolts. (My unsubstantiated wild guess.)

This has me going. I gotta find the schematic for one of the "separate regen tube and detector tube" circuits and see what kind of bulb they used in each position.
"Forward, into the Past!"
807, Hue

Message-Id: <199910241104.EAA24504@raven.a001.sprintmail.com>
Subject: Chattanooga hamfest report
Date: Sun, 24 Oct 1999 07:04:02 -0400
From: "Joseph W. Pinner" <kc5ijd@sprintmail.com>
To: Old Tube Radios <boatanchors@theporch.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"

Went to the Chattanooga hamfest yesterday.

Wasn't the best I had been to, but not that bad, though I was disappointed in the quantity of boatanchor gear there.

I did see quite a bit of heathkit gear - ranging from a number of pieces of their test equipment series to a number ham rigs from the SB- and HW-series. Only a couple of Hallicrafters (a rather poor looking SX-101 is all I can remember right now), Johnson, and I don't remember a single Hammarlund piece. A few Collins sets were seen including a 75S-3B, 32S-3 and 30L-1. There were are couple of folks who broght tube caddies - some good deals there. Someone had sevealr Harvey-Wells rigs that we in nice shape. A few military sets were there - a URR-35 and URM-25F comes to mind right now. There were also a couple of TV-7s for $ 200 each.

73

Joseph W Pinner +
Kingston, TN
KC5IJD / NNN0PHR
EMail: kc5ijd@sprintmail.com

From: AA5QT@aol.com
Message-ID: <0.bf39a505.25444705@aol.com>
Date: Sun, 24 Oct 1999 07:27:01 EDT
Subject: resume
To: Old Tube Radios <boatanchors@theporch.com>

MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit

resume

From: thompson@mindspring.com
Message-ID: <000701bf1e46$e67478c0$ac3056d1@default>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Old Collins gear on Cable TV
Date: Sun, 24 Oct 1999 13:40:43 -0400

I was switching through the cable channels Friday night when I came upon a show on the Disney Channel about a wilderness rescue involving radio equipment, the snowy wild, and a coyote.

The first radio equipment looked like the typical police console of the early 50's but the remote radio was a Collins. At first it looked like the 75A1 but a side view quickly identified the smaller footprint of the 310B exciter. The show had the boy tuning the VFO and adjusting the lower left knobs with the typical receiver noise used by these shows. The problem lies in that the 310B is a CW exciter not a receiver or AM transmitter.

The credits showed this was from the old Disney Wonderful world of color (Colour for our UK and VE friends) circa late 50's.

73 Dave K4JRB

Message-ID: <004001bf1e4f$2d9da8e0$0100005a@JGHOBART>
From: "John Gainsborough" <jgindc@bellatlantic.net>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: RACAL RA17 series
Date: Sun, 24 Oct 1999 14:39:59 -0400
MIME-Version: 1.0
Content-Type: multipart/alternative;
     boundary="----=_NextPart_000_003D_01BF1E2D.A6059AD0"

This is a multi-part message in MIME format.

------=_NextPart_000_003D_01BF1E2D.A6059AD0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: quoted-printable

I have recently acquired an RA17L receiver (basically woks but can do =
with a tune-up) and I am looking for info on the series. Any pointers to =

sources of manuals, information, etc. from this august body for the =
older Racal receivers would be gratefully accepted.

Thanks in advance,

John, KM6LJ/W3

=20

------=_NextPart_000_003D_01BF1E2D.A6059AD0
```
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
*         ---REMAINDER OF MESSAGE TRUNCATED---             *
*     This post contains a forbidden message format        *
*  (such as an attached file, a v-card, HTML formatting)  *
*    Mail Lists at theporch.com only accept PLAIN TEXT     *
* If your postings display this message your mail program *
* is not set to send PLAIN TEXT ONLY and needs adjusting  *
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
```

Message-ID: <001e01bf1e26$769c2b80$b267e7d0@sandy-s-pentium>
From: "Sandy Blaize" <ebjr@i-55.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: Regen Detector Pentode Characteristics
Date: Sun, 24 Oct 1999 13:46:56 -0000
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

>This has me going. I gotta find the schematic for one of the
"separate
>regen tube and detector tube" circuits and see what kind of bulb
they
>used in each position.
>"Forward, into the Past!"
>807, Hue

    One of my passions is to someday scrape up enough '01A's to
build a 3 stage
regenny: detector and two AF stages. I have all the OLD
Thordarson interstage
transformers, and the Marco vernier dials. Wish I could find
some of the old
General Radio surface mounting 4 pin sockets! They DID make them
in ceramic
(or was it "Isolantite"!) by the way!
    The '01A's are truly "low-mu" triodes!

73,
Sandy W5TVW

Message-ID: <38136A67.96F5A211@uswest.net>
Date: Sun, 24 Oct 1999 14:21:59 -0600
From: James Hanlon <knjhanlon@uswest.net>
MIME-Version: 1.0
To: Old Tube Radios <boatanchors@theporch.com>
Subject: RE: Regen Detector Pentode Characteristics
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Nick,

I found an older RCA tube manual that lists all of the tubes National used in the SW-3. So I can summarize the characteristics of each of the RF Amp and Detector tubes that were used over the years.

First generation SW-3: 232's are Sharp cutoff, Gm 650 micromhos.

Second generation, 58's, Remote Cutoff, Gm 1600; 36's, Sharp cutoff, Gm 1080; 35's Remote cutoff, Gm 1050.

Third generation; 6J7's, Sharp cutoff, Gm 1200; 1N5's, Sharp cutoff, Gm 750.

My second generation SW-3 uses 58's, and it's a remarkably good receiver for only three tubes.

73,

Jim, W8KGI

Message-Id: <3.0.1.32.19991024222034.006ef448@pop.ctv.es>
Date: Sun, 24 Oct 1999 22:20:34 +0200
To: Old Tube Radios <boatanchors@theporch.com>
From: "JOSE V. GAVILA (EB5AGV/EC5AAU)" <eb5agv@ctv.es>
Subject: Help: Cossor 343 "Ganging Oscillator" (II)
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hello!

Well, it seems that my previous message was not very clear :-(. I talked about the Cossor 343 generator, said that I already had a manual and explained (perhaps in a fussy way) what it does and what I think is the reason to act that way.

The manual, by the way, has a very detailed section on how to align IFs and other passband circuits. So I know it is a sweeper. Nothing new here. BUT my concern was that it doesn't generate a clean sinusoid (AM or FM modulated as selected), but some mixture of signals. This was what my oscilloscope showed and I was not able to visually understand.

So, in order to get more information about the 'complex' signal, I have finally hooked a receiver to the generator and checked the generated signal. It matches with incredible precission (for a 1946 generator which still has the original tubes and have been never aligned nor changed a part!) the generator dial makings.

So it is not faulty, but generates the desired signal and some other. It works the following way:

VFO - 380kHz fixed generator = desired signal

The problem is that is doesn't care about other signal:

VFO + 380kHz fixed generator = other 'sideband' signal

So, as a sample, if you set the generator to 455kHz, you will get:

VFO - 380 = 455kHz so VFO = 455 + 380 = 835kHz and we get also:

VFO + 380 = 1215kHz

These are the center frequencies, if we use it as a sweeper, or the carrier frequencies in case of an AM modulation. So what I see in the scope is the mixture of both signals.

So my question now is if this is a common way to build a generator in that era (remember this one was made in 1946) or I am looking at a rare bird. In any case, the generator can be used for alignment purposes, as the unwanted signal lies outside the filter bandpass. But I should confess that I like better my Philips GM-2883 (which is a bit younger) which generates a nice sinusoid, without unwanted signals. Only drawback is that it need an external adaptor to work as a sweeper (and I am missing it!). (BTW, I usually resort to the HP-8601A sweeper, but I wanted to setup a 'classic workbench').

Thanks for reading these ramblings.

Regards,

JOSE

----

73 EB5AGV / EC5AAU
JOSE V. GAVILA
Benetusser - VALENCIA (SPAIN)

** VISIT MY VINTAGE RADIO SITE - updated 21-October-1999 ***
http://www.geocities.com/SiliconValley/6992/

EuroBA eGroup: http://www.eGroups.com/list/euro_ba_swap

ICQ 43817777

Date: Sun, 24 Oct 1999 16:31:52 -0400 (EDT)
From: MODSTEPH@ACS.EKU.EDU
Subject: Tube help...?
To: Old Tube Radios <boatanchors@theporch.com>
Message-id: <01JHIOXYV0AY002FY7@ACS.EKU.EDU>
MIME-version: 1.0
Content-type: TEXT/PLAIN; CHARSET=US-ASCII

Two things this time: I cannot find my cross references for military to commercial... What does a VT-65 translate to, please? Metal octals - got about five of them, filtering through brother Stu's parts and pieces, sorting out the tubes and testing them as I go.

Second tube thing: I got into one of Stu's DX-20's (he was partial to them since he built one for his first xmtr as KN9SRR), restored the capacitors with the famous Marty Procedure, tested the tubes... and noted that the final tube is a 6BQ6. As I recalled the original final was a 6DQ6... Question: although the base is the same, is there any reason NOT to go back to the 6DQ6 - was there a "mod" that changed it...?

Rig is otherwise about ready to go: I re-set all the grounds that are screwed on, which I have found eliminates a lot of strange hard-to-find problems, and am finishing rewiring/resoldering where necessary (couple of pieces not soldered well, pulled loose).

Thanks in advance for help. Will get this baby on the air - then to work on the Meissner......

73, Al N5AIT
modsteph@acs.eku.edu

Message-Id: <3.0.5.32.19991024141121.007c3920@proaxis.com>
Date: Sun, 24 Oct 1999 14:11:21 -0700
To: Old Tube Radios <boatanchors@theporch.com>
From: Hue Miller <kargokult@proaxis.com>
Subject: Re: Regen Detector Pentode Characteristics
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 01:46 PM 10/24/99 -0000, Sandy Blaize wrote:
> One of my passions is to someday scrape up enough '01A's to
>build a 3 stage
>regenny: detector and two AF stages.

Sandy, if you are going to build a 3-holer, i don't think you want to use the det + audio + audio circuit. (i.e. "0v2" in olde timey nomenclature.) I haven't used the simple sets exclusively, but enuff to know it's a pain to have to readjust the antenna coupling when you change coils, then to have the dial calibrations be way off from where they were before, or - as i experienced in one place - where flipping a light switch in the room, detuned the radio (from house wiring coupling to receiver antenna.) IMO you NEED an RF stage, even if it's the grounded grid untuned triode seen in Populalar Electronics and Elementary Electronics published circuits.

Lafayette's Explor-Air, with the usual crummy spaceheater 12AT7 50C5 35W4 circuit, (det + triode audio) + (pentode audio output) + (rectumfier), actually has ham band calibration, so theoretically you could swiftly find, say 7140 kc/s. But as soon as you tweak the antenna coupling, the calibration goes out the window.

I am thinking: 6GW8 or other triode-pentode, as grounded grid RF and and audio output stages, then 6EJ7 frame grid pentode regen detector. Or, maybe mix 'n match tubes types, like Philco liked to do: use some old 2-ended tube for regen detector. That OOP book, "Lowfer Handbook" by Ken Cornell (i think that's what the book was titled) mentioned some 2-number tube that he said made an extremely smooth-operating regen detector. What tube was that? I don't think it was a triode. 24? 78? anyone recall?
807, Hue

From: "Ed Tanton" <n4xy@att.net>
To: Old Tube Radios <boatanchors@theporch.com>
Cc: "Collins Reflector" <COLLINS@LISTSERV.TEMPE.GOV>,
"Homebrew Reflector" <homebrew@qth.net>,

"Hallicrafters Reflector" <hallicrafters@qth.net>,
"Hammarlund Reflector" <hammarlund@qth.net>, <milsurplus@qth.net>,
"RTTY Reflector" <greenkeys@qth.net>,
"Vintage Solid State List" <VSS@LISTSERV.TEMPE.GOV>
Subject: Possible RACAL Reflector
Date: Sun, 24 Oct 1999 17:06:55 -0400
Message-ID: <NBBBJDEEIFDDANGEGHLBIENPHGAA.n4xy@att.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

If I could hear from enough people, I am willing to start a RACAL reflector.
Other reflectors please excuse the BW, it's the only way to get it out.
Thanks.

72 / 73 Ed N4XY email: <n4xy@arrl.net>

webpage: http://www.qsl.net/n4xy/

From: "WF2U" <mbendror@villagenet.com>
To: Old Tube Radios <boatanchors@theporch.com>
Cc: "Collins Reflector" <COLLINS@LISTSERV.TEMPE.GOV>,
"Homebrew Reflector" <homebrew@qth.net>,
"Hallicrafters Reflector" <hallicrafters@qth.net>,
"Hammarlund Reflector" <hammarlund@qth.net>, <milsurplus@qth.net>,
"RTTY Reflector" <greenkeys@qth.net>,
"Vintage Solid State List" <VSS@LISTSERV.TEMPE.GOV>
Subject: RE: Possible RACAL Reflector
Date: Sun, 24 Oct 1999 17:56:46 -0400
Message-ID: <00f901bf1e6a$aa92b050$0291c0c0@meir-s_nt4.villagenet.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hi Ed and Group,

Count me in.

I bought 2 RA-17C's in 1970, sold them in 1973 when I moved from my parents' house. I was reunited with one of them 5 years ago, in non working past the white noise stage condition. Will get to troubleshooting it one of these years... I bought an RA-117 3 years ago in good condition - working.

It would be nice to have a Racal reflector.

73, Meir WF2U

-----Original Message-----
From: owner-boatanchors@theporch.com [mailto:owner-boatanchors@theporch.com]
On Behalf Of Ed Tanton
Sent: Sunday, October 24, 1999 5:07 PM
To: Old Tube Radios
Cc: Collins Reflector; Homebrew Reflector; Hallicrafters Reflector;
Hammarlund Reflector; milsurplus@qth.net; RTTY Reflector; Vintage Solid
State List
Subject: Possible RACAL Reflector

If I could hear from enough people, I am willing to start a RACAL reflector.
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Thanks.

72 / 73 Ed N4XY email: <n4xy@arrl.net>

webpage: http://www.qsl.net/n4xy/

End of BOATANCHORS Digest 2710
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